

	Total	N-Clones (208F-FE-8)	T-Clones (FE8-208F)
Number of sequenced cDNA clones	1257	669	588
Number of individual sequences	823	416	407
Sequence analysis			
Known genes (nr/Genbank)	427	207	220
Expressed Sequence Tags (dbest)	303	161	142
No similarity in data bases (new)	93	48	45
Expression analysis: Reverse Northern Analysis/conventional Northern Blot			
Differentially expressed	393	225	168
Known genes	244	126	118
Expressed sequence tags	104	74	30
New sequences	45	25	20
Not differentially expressed	194	86	108
Not detectable in expression analysis	236	105	131

FIG. 1

Genes that are adjusted down by H-Ras-transformation

Sequence Identity (Genbank/EMBL)	Species	Access Number	Adjust-ment	Extent	Sequence Identity (Genbank/EMBL)	Species	Access Number	Adjust-ment	Extent
3',5'-cyclic NMP phosphodiesterase	r	Z22867	1	>100	N1	h	AF033276	1	16.1
Aha repressor	m	AB015140	1	38.0	R	r	D38056	1	5.2
cAMP-dependent protein kinase type II	r	M1292	1	>100	R	h	X00574	1	17.0
CSF-1 (colony stimulating factor-1)	r	M84361	2	5.6	M2,R	m	X63677	1	12.5
Gas-6	m	X59846	1	24.0	R	r	X05072	1	8.1
Guanine nucleotide-binding protein G-s alpha	r	M12673	1	3.6	N3	r	X03388	1	50.7
I-TRAF (TRAF-interacting protein)	m	M053864	1	38.6	N4	r	U28830	1	8.3
IKK-complex-associated protein (IRAP)	h	AF041435	1	8.6	R	m	U19559	1	68.2
MDCKS	m	M60874	2	3.3	NS	m	U97016	2	>100
MS22 kinase	r	A001529	2	21.6	R	h	U72206	1	32.1
N-gly-mannitol monophosphatase (NMP)	r	U84038	1	44.3	N6	r	AF72935	1	51.0
P5 protein	h	X26268	1	3.4	R	r	A002556	1	35.0
Phosphatidylethanolamine 3-phosphatase (PEP)	r	X27344	2	>100	N7	r	X033446	1	58.2
Phosphatidylinositol 3-kinase p110 beta	m	S57334	1	>100	N8	r	M81627	1	58.2
Phosphatidylinositol 3-kinase p110	m	U15732	1	65.9	N9	h	U43373	2	50.6
Protein tyrosine phosphatase delta (NPTPc)	r	U13803	1	1.9	R	r	X17448	1	19.9
RON alpha	r	U38481	1	26.1	N10	r	U11463	1	>100
Serum inducible kinase (SNK)	m	M56163	1	>100	M11,R	r	U07395	1	21.0
SH3 binding protein (SHB)	h	AB005047	1	3.5	R	m	AB001927	1	9.9
						m	X86538	2	6.7
						h	U93181	1	27.1
						h	AF038443	2	11.60
						m	U40888	1	2.7
						r	D58222	1	12.2

Genes that are adjusted up by H-Ras-transformation

Sequence Identity (Genbank/EMBL)	Species	Access Number	Adjust-ment	Extent	Sequence Identity (Genbank/EMBL)	Species	Access Number	Adjust-ment	Extent
3',5'-cyclic NMP phosphodiesterase	r	Z22867	1	>100	N1	h	AF033276	1	16.1
Aha repressor	m	AB015140	1	38.0	R	r	D38056	1	5.2
cAMP-dependent protein kinase type II	r	M1292	1	>100	R	h	X00574	1	17.0
CSF-1 (colony stimulating factor-1)	r	M84361	2	5.6	M2,R	m	X63677	1	12.5
Gas-6	m	X59846	1	24.0	R	r	X05072	1	8.1
Guanine nucleotide-binding protein G-s alpha	r	M12673	1	3.6	N3	r	X03388	1	50.7
I-TRAF (TRAF-interacting protein)	m	M053864	1	38.6	N4	r	U28830	1	8.3
IKK-complex-associated protein (IRAP)	h	AF041435	1	8.6	R	m	U19559	1	68.2
MDCKS	m	M60874	2	3.3	NS	m	U97016	2	>100
MS22 kinase	r	A001529	2	21.6	R	h	U72206	1	32.1
N-gly-mannitol monophosphatase (NMP)	r	U84038	1	44.3	N6	r	AF72935	1	51.0
P5 protein	h	X26268	1	3.4	R	r	A002556	1	35.0
Phosphatidylethanolamine 3-phosphatase (PEP)	r	X27344	2	>100	N7	r	X033446	1	58.2
Phosphatidylinositol 3-kinase p110 beta	m	S57334	1	>100	N8	r	M81627	1	58.2
Phosphatidylinositol 3-kinase p110	m	U15732	1	65.9	N9	h	U43373	2	50.6
Protein tyrosine phosphatase delta (NPTPc)	r	U13803	1	1.9	R	r	X17448	1	19.9
RON alpha	r	U38481	1	26.1	N10	r	U11463	1	>100
Serum inducible kinase (SNK)	m	M56163	1	>100	M11,R	r	U07395	1	21.0
SH3 binding protein (SHB)	h	AB005047	1	3.5	R	m	AB001927	1	9.9
						m	X86538	2	6.7
						h	U93181	1	27.1
						h	AF038443	2	11.60
						m	U40888	1	2.7
						r	D58222	1	12.2

FIG. 2

Nuclear Proteins		[Transcription Factors, DNA Processing Enzymes]	
ANXA nucleoprotein	h M05092	2	>100 N12
ATP-dependent RNA helicase	m U4690	1	8.9 N13
BRG-1 (brahma homolog)	m S4808	1	13.1 N14
CCAT/enhancer binding (C/EBP gamma)	r X6400	1	16.6 N15
Cdc21	r X6589	1	3.9 R
Centromeric protein CENPC	m U03113	1	39.2 N16.R
Chromosome-associated polypeptide C(CAP-C)	h A019987	1	9.6 R
DNA polymerase epsilon	h A016899	1	5.1 R
DNA repair protein RAD50	h A06687	1	3.4 N17.R
ERK1 transcription factor	h U17163	1	9.6 N18
ETE TEA domain containing transcription factor	m D50463	1	7.4 N19
Ga binding protein	h U79324	1	41.7 N20
HEC retinoblastoma-associated protein	h A017790	1	3.9 N21.R
Histone H3.3	h X49502	2	>100 N22.R
Ki-67 antigen	h X2996	2	5.8 R
LAP2 (lamina associated polypeptide 2)	r U8114	4	>100 N23.R
Mouse zinc finger protein	m D45210	1	3.6 N25
MTF3 (X-linked transcriptional activator)	m S76513	1	3.6 R
Nuclear autoantigen G2NA	h U7959	1	31.9 R
Nucleoporin 135	h A007358	1	13.2 N26
Poly(ADP-ribose) glycohydrolase (PARG)	h A57957	1	4.7 R
RN4 transcription factor	m A57957	2	4.9 R
Single strand DNA-binding protein	h A277048	1	14.9 R
SH3A1 transcription factor	r U24135	1	1.8 N27
Topoisomerase II	m D10461	1	20.1 R
Topoisomerase II	r Z1952	3	2.1 R

# Protein Processing, Protein Transport and Protein-folding Molecule

26S proteasome subunit p55	h A001103	1	3.5 N28
CBP4/endoplasmic	m S69116	1	2.2 R
Heat shock protein 105	m D67016	1	15.1 N29
Heat shock protein 90	h X15163	1	4.8 N30.R

h A035591	2	5.6 R
m Z31555	2	2.2 T35.R
h A035922	4	48.5 T36
r S78556	2	2.5 T36.R

FIG. 2A



Cytoskeleton Components-Voltage Involvement in Adhesion and Cell-Cell Interaction									
AB-280 (actin-binding protein/filamin)	h X3316	1	5.8	R	h A706083	3	3.3	T59, R	
Alpha-actinin	h X5801	5	11.7	R	m W8956	2	29.7	T50, R	
Cadherin-1	h X5801	5	11.7	R	h U0755	1	5.2	R	
Cadherin-11	h U0849	3	37.7	N41	m J62870	1	17.0	T51, R	
Caldesmon	h U0778	1	>100	N42	m U0870	5	4.1	R	
Cytohesin-2	m X5128	1	10.4	R	m W0093	2	5.2	R	
USMG core fibronectin (syndecan-2)	h M0167	1	61.9	N43, R	h U9163	12	1.3	T52	
hHSPAP microtubule associated protein	h X0004434	1	26.9	N44	h U1688	1	6.9	R	
MLP-2	h S77900	2	2.6	N45, R	h U0095	2	1.9	T53	
hHSPAP microtubule associated protein	m X06340	1	60.1	N46	h U1688	1	6.9	R	
P-actinin	h U96459	1	9.4	R	h U1688	1	6.9	R	
Podocalmin	h U96459	1	9.4	R	h U1688	1	6.9	R	
Syndecan	h U07669	1	7.8	N47, R	h U1688	1	6.9	R	
Tropomyosin 4	h M4723	1	39.4	N49	h U1688	1	6.9	R	
TRPM-2/Clustrin	h M4723	1	39.4	N49	h U1688	1	6.9	R	
Vimentin	h X62352	1	1.6	R	h X34013	1	2.4	T54, R	

### Extracellular Proteins

	R	278279	34	22.3	R	MMP-1 (Collagenase)	r	M65616	19	>100	T55.R
Collagen alpha1		X52490	4	16.0	N50.R	MMP-3 (Stromelysin 1)	r	X02601	7	32.3	T56.R
Cyrl61 (immediate-early gene)		X14194	4	35.8	N51	MMP-10 (Stromeysin 2)	m	X03683	12	31.8	R
Enactin/N/dogen		U22493	1	3.3	R	Mob-1	r	U1035	2	2.4	T57.R
Fibrillin-1 (Fbn1)		X15906	25	>100	N52	Testin	m	T07890	1	8.9	T58
Fibronectin		M70642	2	49.4	N53						
FISIP-12		U06864	5	2.0	N54.R						
Follistatin-related protein; TSO-36		M15525	1	5.0	R						
Laminin B1		U11038	14	9.2	R						
Lysyl oxidase		H08942	1	59.2	M55.R						
Lysyl oxidase-related protein (MSH-14)		D68370	3	6.0	N56						
Megakaryocyte potentiating factor		U44725	1	13.4	N57						
MGF mast cell growth factor		U56566	3	50.6	N58.R						
MMP-2 (gelatinase A)		M62470	25	42.5	R						
Thrombospondin I		S12504	1	18.3	N59.R						
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Thrombospondin LXXXXXXXI											

FIG. 2C

Others

ACM1 (anti-apoptotic gene)	h	U93857	2	3.1	N63	Amexin IV	m	U72941	1	57.8	T59.R
Ana-6 (activity and neurotransmitter-ind. gene 6)	r	A930091	1	10.2	N63	Brain receptor associated protein 37 (BAR 37)	m	X18683	2	42.8	T60.R
Antiquitin	m	S142630	2	7.4	N63	EC-1 retrovirus	m	AF042384	1	2.8	T61.R
ATP-dependent metalloprotease FshL	m	X44550	1	21.3	R	hsc-1 (human cancer suppressor candidate 1)	m	AF002672	1	6.9	T62
CSP20 (CRP-binding protein)	m	X44550	2	5.0	R	BP-1 (similar to lysyl hydroxylase isoform 3)	m	X18684	1	2.6	T63
Collapsin-2	c	U93820	1	>100	N62	C3 keratin-1 related	m	AB013607	1	6.4	R
DOC-7996 Phosphoprotein	c	U95177	1	>100	N63	Calmodulin (RM03)	m	X19312	2	2.8	T64
E2A (p53 responsive gene)	m	X41751	4	5.5	N64	F1B 13K/Bcl-2-binding protein homolog (Nip3)	m	AF41054	1	63.0	T65
erb-A1 protein synthesis initiation factor	m	X56853	1	3.9	R	F1S351 activated in colon tumors	m	AB024704	1	2.3	R
ERL1 precursor	ba	X004670	1	>100	N65	Glycyl-L-histidine synthetase	m	AB015345	1	12.0	R
ERL1 precursor	h	X61381	1	>100	N66	HRH216 rat fetal brain gene	m	U09510	1	2.9	T66
X1A0145 (myeloblast)	h	D28476	1	16.3	R	Insulinoma Gene (tig)	m	U09510	1	1.6	T67
X1A0123 (myeloblast)	h	D50918	1	31.8	R	K20p protein	m	X19393	1	16.0	T68
X1A0123 (myeloblast)	h	D81709	1	4.8	R	KIAA0013 (myeloblast)	m	AF064093	1	3.2	R
X1A0259 (myeloblast)	h	D81748	1	3.6	R	KIAA0110 (brain)	m	DS7717	1	6.0	R
X1A0312 (brain)	h	A002230	1	20.8	R	KIAA031 (brain)	m	AB002308	1	10.7	R
LI retroviral (OR2)	h	X63581	5	20.2	R	KIAA035 (brain)	m	AB007891	1	2.5	R
LXR3 (LINE 1 repetitive sequence)	r	N60824	1	26.2	R	KIAA044 (brain)	m	AB01097	1	2.9	R
Mama gene	r	AF065438	1	14.5	N67	KIAA095 (brain)	m	AB01116	1	9.4	R
Osteoglycin	m	D31951	5	2.7	R	KIAA097 (brain)	m	AB01169	1	2.9	R
p53B2 (p53-binding protein)	m	U58811	1	10.3	R	LMW protein FHL2	m	AB01169	1	4.2	R
PEP2a1	m	D14636	1	38.4	N68	LMW protein FHL3	m	AF055899	1	7.3	T69
pRFX2 (maternal embryonic message gene 2)	m	X05550	1	29.4	N69	MAM domain protein	x	U08116	1	>100	T70.R
SFRS7 splicing factor	h	X14897	2	10.4	R	Mu-calpain large subunit (clsl)	x	XUJ3736	1	28.7	R
WDR2	h	X17464	1	>100	N70	Nerritin	m	XUJ3736	1	1.3	R
Zinc-finger domain-containing protein	h	U90654	1	7.8	R	ORF150 (Kha oxygen regulated protein)	m	U18555	1	1.3	R
ZNF216 zinc finger protein	m	AF062071	1	6.7	R	Pho finger protein 2 (PHF2)	m	X1935321	1	2.1	R
						Rxn3 (rat spindlecellular alaxia type 3 gene)	m	X1935321	1	55.5	T72
						Seryl tRNA synthetase	m	X08136	3	2.4	R
						Synexin (amexin VII)	m	L13199	1	2.2	R
						TACC2	m	L13199	1	2.3	R
						TACC3 (tumor susceptibility protein)	m	U53845	2	2.2	T73
						Tyrosine phosphatase-like protein 1A-2a, PTP35	r	U06852	11	74.9	T74.R

FIG. 2D



$$\frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

**FIG. 2E**

Sequence Identity (Genbank/EMBL)	Expression Strength		Sequence Identity (Genbank/EMBL)	Expression Strength	
	208F	F28 +2D		208F	F28 +2D
3-hydroxy 3-methylglutaryl coA synthase	++	++	Bleomycin hydrolase	+	++
ASP-280 (actin binding protein/filamin)	++	++	BRCA1-associated RING protein (Bard1)	0	++
Alpha-actin	++	++	E1B 19K/Bcl-2-binding protein (Bip3)	0	++
Antioxidant enzyme A08372	++	++	Exportin	+	++
ASP6 (acetylaminophen-binding protein)	++	0	FXN-1 (flap endonuclease-1)	0	++
Cdc21	++	0	FXB51 (T-cell-specific immunophilin)	0	++
Centromeric protein CENPF (a)	++	0	FLIP (ELICF-like inhibitory protein)	0	++
Collagen alpha 1	++	+	GFP-H	0	++
CSP-1 (colony stimulating factor 1)	++	0	LAPIC (lamina associated polypeptide 1)	0	++
DGC-2; p56 phosphoprotein	++	0	MBD domain protein	0	++
F531 transcription factor	++	+	MAP-kinase phosphatase (cpg2); (c)	0	++
ERF transcription factor	++	0	MAP-10 (Stromelysin-2) (d)	0	++
Fibronectin	++	+	MAP-3 (Stromelysin-1)	0	++
Follistatin-related protein: TSC36	++	+	Myb-binding protein (P160)	+	++
GF94/endoplasmic	++	+	NF-1 transcription factor	0	+
Ga binding protein	++	0	Non-neuronal enolase (NNE)	+	++
Heat shock protein 90	++	0	ORF150 (150 kDa oxygen regulated)	+	++
HSPC core fibroglycan (syndecan-2)	++	0	p67 (isoprenylated 67 kDa protein)	0	++
Interferon induced gene	++	0	P18 kinase	0	++
IL1 receptor (ORF2)	++	0	Rap1B GTP binding protein (e)	0	++
Laminin B1	++	+	Ras-GTPase-activating protein	0	++
Lysyl oxidase	++	0	RasG3 (rat spinocerebellar ataxia gene)	0	++
Lysyl oxidase-related protein (WS-14)	++	0	SA-1 (stromal antigen)	0	++
Mama gene	++	0	Sorti (Sortilin)	0	++
MMP-2 (Gelatinase A)	+	0	TSG101 (tumor susceptibility protein)	++	++
MFE3 (transcriptional activator)	++	+			
Nuclear autoantigen GS2NA	++	0			
Osteoglycin	++	0			
P5 protein	++	0			
P-cadherin	++	0			
Protein-like protein (P12P)	++	0			
Serum inducible kinase (SKK)	++	0			
SNTS1a1 transcription factor	++	0			
Thrombospondin 1	++	0			
TIMP-2 (inhibitor of metalloproteinase 2)	++	+			
TRPM-2/clustern (d)	++	+			

FIG. 3

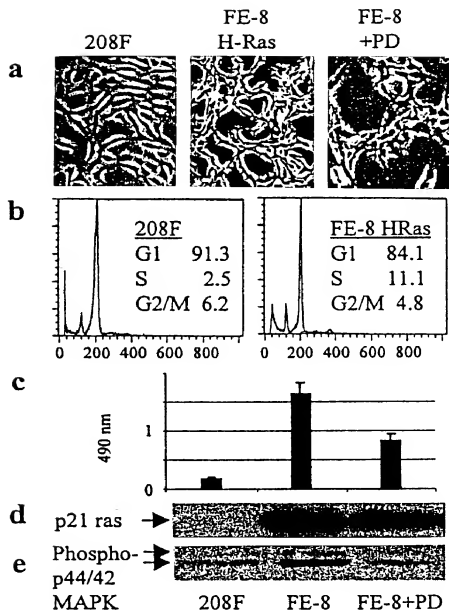






Sequence Identity (Genbank/EMBL)	Expression Strength			
	208F	FE-8 H-Ras	208F K-Ras	208F N-Ras
ABC transporter MOAT-B	0	+++	0	+
BCSC-1 (breast cancer suppressor candidate 1)	+	+++	0	+
Cyclooxygenase 1	+	+++	+	+++
ElB 19K/Bcl-2-binding protein (Nip3)	0	++	+++	++
EST AA743557	+++	+	0	++
EST AA792426	+	+++	+	+
EST AA924000	+	+++	+	++
ETF TEA domain containing transcription factor	+++	0	++	++
Farnesyl pyrophosphate synthetase	+	+++	0	+
FEN-1 (flap endonuclease-1)	0	+++	+	0
FLIP (FLICE-like inhibitory protein)	0	+	++	+++
JAK1 protein tyrosine kinase 1	+	+++	+	+
MAGE-B gene cluster	0	+++	0	0
MAP-kinase phosphatase (cpg21)	0	++	+++	+++
MARCKS	+++	0	+	+++
MMP-10 (Stromelysin 2)	0	++	++	+++
Mob-1 (f)	0	+++	++	+
mTFE3 (X-linked transcriptional activator)	+++	0	+	+
Myb-binding protein (P160)	+	+++	++	++
novel transcript N317	+++	0	++	+++
P-cadherin (g)	+++	0	0	++
Phosphatidylinositol 3-kinase p170	+++	0	+	++
Ras-GTPase-activating protein	0	+++	0	0
SBF1 phosphatase	0	+++	+	+
Serum inducible kinase (SNK) (h)	+++	0	+++	+++
Tyrosine phosphatase IA-2a (i)	0	+++	0	++

**FIG. 4**



**FIG. 5**

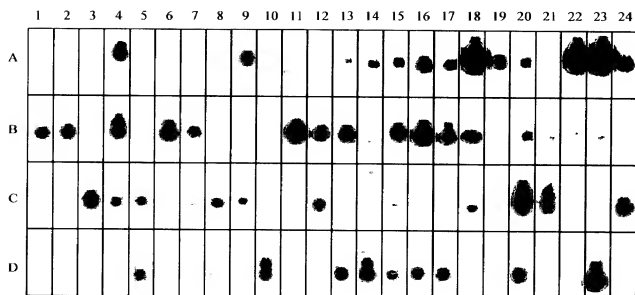
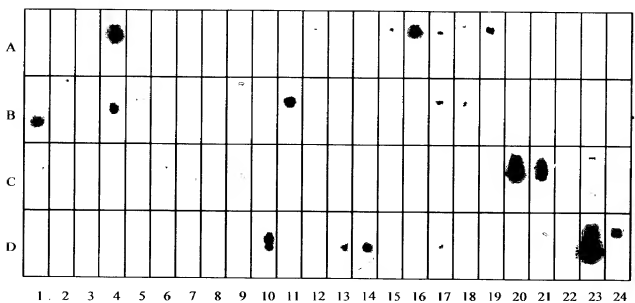
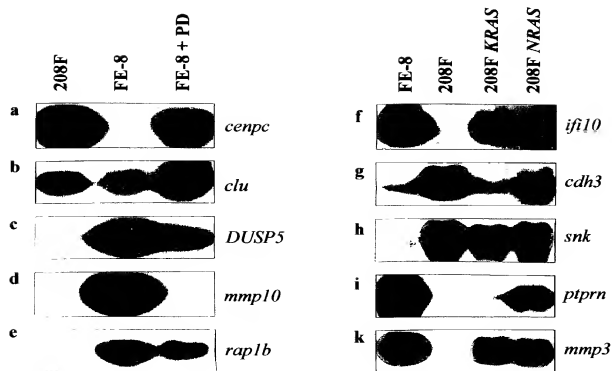
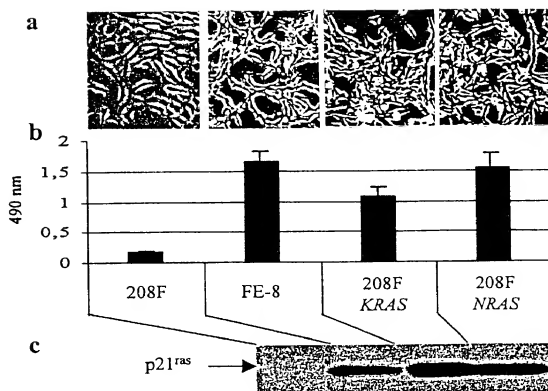
**a****b****FIG. 6**



FIG. 7



**FIG. 8**

**FIG. 9**

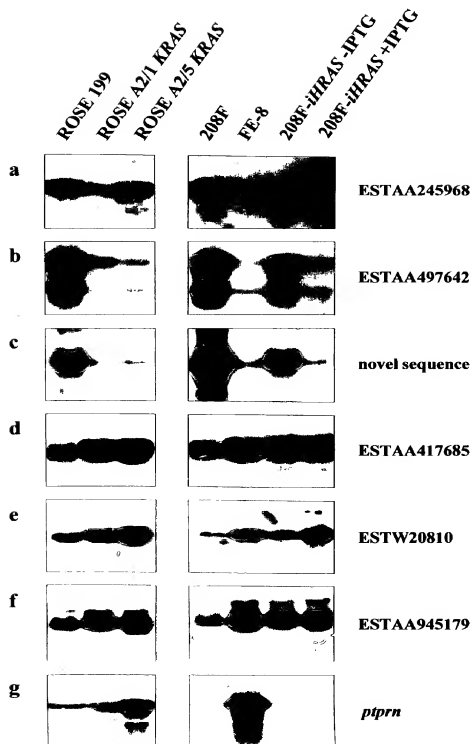


FIG. 10

$$\frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}, \quad \frac{d}{dt} \left( \frac{\partial L}{\partial \dot{y}} \right) = \frac{\partial L}{\partial y}, \quad \frac{d}{dt} \left( \frac{\partial L}{\partial \dot{z}} \right) = \frac{\partial L}{\partial z}$$

2	T59
2	T182
3	T82
4	T6
5	T34
6	N5
7	N20
8	N280
9	N271
10	N126
11	T149
12	N199
13	T64
14	N131
15	T20
16	T162
17	T141
18	N77
19	N104
20	T49
21	T16
22	N189
23	N28
24	T124
25	T216
26	T60
27	T37
28	T160
29	N101
30	N40
31	T54
32	T120
33	N159
34	T185
35	N151
36	T147
37	N188
38	T25
39	T47
40	T43
41	T139
42	T176
43	N144
44	T35
45	T98
46	T15
47	T138
48	N21
49	N103
50	T143
52	T44
53	N31
54	T243
55	N129
56	T193
57	T137
58	T217
59	T0191
60	N42
62	T156
63	T67

**FIG. 11**



100-447000-1000

**FIG. 11A**



123 N102  
 124 T208  
 125 N44  
 126 T205  
 127 T215  
 128 N283  
 129 T226  
 130 T253  
 131 T222  
 132 N264  
 133 T240  
 134 N70  
 135 T125  
 136 N253  
 137 N234  
 138 N55  
 139 N202  
 140 N82  
 141 T45  
 142 T118  
 143 T10  
 144 N71  
 145 N183  
 146 N165  
 147 N213  
 148 N35  
 149 N182  
 150 N43  
 151 N75  
 152 T163  
 153 T89  
 154 N11  
 155 N32  
 156 T50  
 157 N215  
 158 N242  
 159 N181  
 160 N48  
 161 T227  
 162 N149  
 163 N109  
 164 N260  
 165 T219  
 166 T51  
 167 N85  
 168 N45  
 169 T250  
 170 N261  
 171 T172  
 172 N62  
 173 N160  
 174 N154  
 175 N58  
 176 T232  
 177 N128  
 178 N79  
 179 T58  
 180 N30  
 181 T68  
 182 T244  
 182 T251  
 182 T96  
 183 N26

FIG. 11B





**FIG. 11E**